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ÖRM PTO-1449 Rev. 2-32)

**U.S. Department of Commerce** Patent and Trademark Office

Atty. Docket No.

Serial No.

**INFORMATION DISCLOSURE** STATEMENT BY APPLICANT

(Use several sheets if necessary)

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09/835,007

MAR 1 9 2003

Applicant:

Rudger Rubbert et al.

Group: 2621

Technology Center 26064/13/01

LIS PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Mr.	6,434,278	08/13/02	Hashimoto	382	285	
	6,434,265	08/13/02	Xiong et al	382	154	
	6,363,163	03/26/02	Xu et al	382	130	
	6,047,078	04/04/00	Kang	382	107	
	5,937,083	08/10/99	Ostuni	382	131	
V	5,748,199	05/05/98	Palm	345	473	l
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FOREIGN PATENT DOCUMENTS **Translation Document Number Date** Country Class Subclass Yes No

OTHER DOCUMENTS (Including Aut	hor, Title, Date, Pertinent Pages, Etc).
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FORM PTO-1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

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Applicant:

Rudger Rutternhotogly Center 2600

Filing Date: 04/13/01

**Group:** 2621

#### **U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
duc	6,407,735	06/18/02	Kressin	345	420	-
1	5,937,083	08/10/99	Ostuni	382	131	
	6,047,078	04/04/00	Kang	382	107	
	6,363,163	03/26/02	Xu et al.	382	130	
	6,434,265	08/13/02	Xiong et al.	382	154	
Ψ	6,434,278	08/13/02	Hashimoto	382	285	

#### **FOREIGN PATENT DOCUMENTS**

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

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# U.S. Department of Commerce Patent and Trademark Office

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

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	Atty. Docket No.	Serial No.
	01-100	09/835,007
	Applicant: Rudger Rubbert, et al	
	Filing Date: 04/13/01	<b>Group:</b> 2621

**U.S. PATENT DOCUMENTS** 

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWC	4,185,918	01/29/80	DiMatteo et al.	356	375	Appropriate  VIII CRIME TO
	4,500,206	02/19/85	Cole et al.	356	376	4 0
	4,575,805	03/11/86	Moermann et al	364	474	
	4,611,288	09/09/86	Duret et al.	364	474	20 C
	4,663,720	05/05/87	Duret ét al.	364	474	The or
	4,825,263	04/25/89	Desjardins et al	356	376	000
	4,837,732	06/06/89	Brandestini et al.	364	413.28	
	4,867,570	09/19/89	Sorimachi et al	356	376	
	4,873,449	10/10/89	Paramythioti et al.	250	560	
	5,011,405	04/30/91	Lemchen	433	24	
	5,027,281	06/25/91	Rekow et al.	364	474.24	
	5,085,502	02/04/92	Womack et al.	356	376	
	5,166,878	11/24/92	Poelstra	364	424.01	
	5,289,264	02/22/94	Steinbichler	356	376	
	5,309,243	05/03/94	Tsai	348	221	
	5,372,502	12/13/94	Massen, et al.	433	215	
	5,424,836	06/13/95	Weise et al.	356	376	
	5,431,562	06/11/95	Andreiko et al.	433	24	·
	5,545,039	08/13/96	Mushabac	433	215	
	5,608,211	03/04/97	Hirono et al.	250	234	
	5,615,003	03/25/97	Hermary et al.	356	3.03	
<b>V</b>	5,878,159	03/02/99	Taleblou et al.	382	128	

FORM PTO-1449 (Rev. 2-32)

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**INFORMATION DISCLOSURE** 

**STATEMENT BY APPLICANT** (Use several sheets if necessary)

Atty. Docket No.

Serial No.

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09/835,007

Applicant:

Rudger Rubbert, et al

Filing Date: 04/13/01

Group:

**U.S. PATENT DOCUMENTS (continued)** 

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Awc	5,970,499	10/19/99	Smith et al.	707	104	
	5,975,893	11/02/99	Chisti et al	433	06	
	6,068,482	05/30/00	Snow	433	223	
	6,099,314	08/08/00	Kopelman et al.	433	213	
	6,217,325	04/17/01	Chishti et al.	433	24	
	6,227,850	05/08/01	Chishti et al.	433	24	
$\checkmark$	6,227,851	05/08/01	Chishti et al.	433	24	
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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known

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### INFORMATION DISCLOSURE STATEMENT BY ADDICE

ATEMENT BY APPLICANT	First Named Inventor	Ruedger Rubbert
(Use as many sheets as necessary)	Art Unit	2621
ATEMENT BY APPLICANT (Use as many sheets as necessary)	Examiner Name	
of 11	Attorney Docket Number	04 400

**Application Number** 

First Named Inventor

Filing Date

Examiner	Cite	Document Number	U. S. PATEN	T DOCU			
Initials*	No.¹	Number-Kind Code <sup>2 (1 known)</sup>	Publication Date MM-DD-YYYY		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, V Relevant Passages or Re	Where levant
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Atty. Docket No. Serial No.

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Applicant:

Rudger Rubbert et al.

Filing Date: 04/13/01

Group: 2621

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if
Awc	5,715,166	02/03/98	Besl et al.	+	<u> </u>	Appropriate
AWC	5,742,294	02/03/38	Desi et al.	364	474.24	
	3,742,294	04/21/98	Watanabe et al.	345	425	
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FOREIGN PATENT DOCUMENTS

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## U.S. Department of Commerce Patent and Trademark Office

# ce Atty. Docket No.

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Serial No.

09/835,007

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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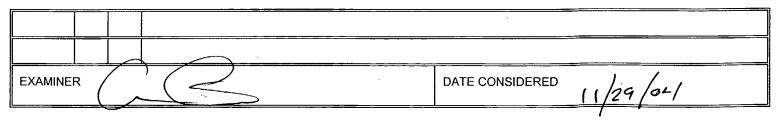
Applicant:							
Rüdger Rubbert, et al.							
Filing Date: 04/13/01	<b>Group:</b> 2621						

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number Date		Name	Class	Subclass	Filing Date if Appropriate
AW(	5,278,756	01/11/94	Lemchen et al.	364	413	
	6,049,743	04/11/00	Baba	700	163	1
	6,081,739	06/27/00	Lemchen	600	407	
	6,405,071	06/11/02	Analoui	600	425	
	6,488,503	12/03/02	Lichkus	433	REC	EIVED
	6,512,994	01/28/03	Sachdeva	702	167 JUL 5	2 3 2003

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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known					
Application Number	09/835,007				
Filing Date	Apr. 13, 2001				
First Named Inventor	Ruedger Rubbert				
Art Unit	2621				
Examiner Name					
Attorney Docket Number	01-100	<del></del>			

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
Auc		<sup>US-</sup> 5,615,003	05-25-1997	Hermary et al.	Figures Appear
		<sup>US-</sup> 6,266,453 B1	07-24-2001	Hibbard et al.	
		US- 6,542,249 B1	04-01-2003	Kofman et al.	
		<sup>US-</sup> 6,549,288 B1	04-15-2003	Migdal et al.	
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	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	01-100	09/835,007
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**U.S. PATENT DOCUMENTS** 

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Avc	6,371,761	04/16/02	Cheang et al.	433	24	
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**FOREIGN PATENT DOCUMENTS** 

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

Awc		Yee et al., "Three-Dimensional Imaging System", Optical Engineering, Vol. 33, No. 6, pp. 2070-2075 (June 1994)
EXAMINE	R	DATE CONSIDERED 11/29/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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Applicant:

Rudger Rubbert et al.

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**Group**: 2621

#### **U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date Name		Class	Subclass	Filing <sup>°</sup> Date if Appropriate	
AWC	5,988,862	11/23/99	Kacyra et al.	703	6		
	5,991,437	11/23/99	Migdal et al.	382	154		
	6,088,695	07/11/00	Kara	707	10		
	6,100,893	08/08/00	Ensz et al.	345	420		
	6,124,934	09/26/00	Shahar et al.	356	624		
	6,139,499	10/31/00	Wilk	600 .	443		
	6,167,151	12/26/00	Albeck et al.	382	154		
1	6,201,546	03/13/01	Bodor et al.	345	430		
	6,205,716	03/27/01	Peltz	52	36.2		
	6,211,506	04/03/01	Pryor et al.	250	208.1		
	6,217,334	04/17/01	Hultgren	433	215		
V	6,253,164	06/26/01	Rohm et al.	703	2		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

Auc			International Search Report dated August 15, 2001, for International Application No. PCT/US01/12107 of OraMetrix, Inc.
EXAMINER		/	DATE CONSIDERED $1(\sqrt{29/84})$

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**INFORMATION DISCLOSURE** 

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	U.	S. PATENT DOC	CUMENTS				
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
Auc	Re. 35,816	06/02/98	Schulz	356	608		
1	4,286,852	09/01/81	Stern et al.	396	106	,	
	4,294,544	10/13/81	Altschuler et al.	356	610		
	4,508,452	04/02/85	DiMatteo et al.	356	610		
	4,616,121	10/07/86	Clocksin et al.	219	124.34		
	4,745,469	05/17/88	Waldecker et al.	348	094		
	4,935,635	06/19/90	O'Harra	250	559.06		
	5,028,799	07/02/91	Chen et al.	250	561		
	5,098,426	03/24/92	Sklar et al.	606	5		
	5,131,844	07/21/92	Marinaccio et al.	433	72		
	5,214,686	05/25/93	Webber	378 .	38		
	5,243,665	09/07/93	Maney et al.	382	152		
	5,347,454	09/13/94	Mushabac	433	214		
	5,513,276	- 04/30/96	Theodoracatos	382	154		
	5,724,435	03/03/98	Malzbender	382	103		
	5,823,778	10/20/98	Schmitt et al.	433	214		
	5,848,115	12/08/98	Little et al.	378	4		
	5,880,961	03/09/99	Crump	700	112	·	
	5,886,775	03/23/99	Houser et al.	356	4.01		
V	5,985,495	11/16/99	Okumura et al.	430	22		

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if redessary)	01,100	09/835,007
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**U.S. PATENT DOCUMENTS** 

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWI	4,634,278	01/06/87	Ross et al.	356	376	
AWC	5,604,817	02/18/97	Massen et al.	382	120	
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**FOREIGN PATENT DOCUMENTS** 

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ork Reduction Act of 1995, no persons are required to re-BADESING for form 1449/PTO

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Col	Complete if Known					
Application Number	09/835,007					
Filing Date	Apr. 13, 2001					
First Named Inventor	Ruedger Rubbert					
Art Unit	2625					
Examiner Name	Aaron W. Carter					
Attorney Docket Number	01-100					

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code <sup>2</sup> (# known)			rigates Appear
AW		<sup>US-</sup> 6,466,892 B2	10/15/2002	Fujii et al	
<b>AW</b> (		<sup>US-</sup> 6,405,151 B2	06/11/2002	Fujii et al	
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Serial No.

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Applicant: Rudger Rubbert et al.

Atty. Docket No.

Filing Date: 04/13/01

Group: 2621

Technology Center 2600

LLS PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Awc	09/560,131		Rubbert et al.			04/28/00
1	09/560,132		Rubbert et al.			04/28/00
	09/560,583		Rubbert et al.			04/28/00
V/	10/136,607		Weise, et al.			05/01/02

FOREIGN PATENT DOCUMENTS **Translation Subclass** Class Country Date **Document Number** Yes No

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Ave		Charles A.	Pelizzari et al., "Accur	ate Three-Dimensional I y, 13(1):20-26, January/	Registration of C			Images of	the Brain",	Journal
				ution of 3D Objects and		Computer	Graphics	& Applica	ations, 1990	), pages
		Behrooz Ka	amgar-Parsi et al., "Res	gistration of Multiple Ov alysis and Machine Inte	verlapping Range	Images: S	Scenes wi	thout Dist	inctive Feat	ures",
		l l		Multimodality Brain Im		~				
<b>V</b>		i i	ois Mangin et al., "Non	supervised 3D Registrat						
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	U.S.	PATENT DOCU	MENTS			
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Document Number	Date	Country	Class	Subclass	1	slation
					Yes	No

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

Awc	S.M. Yamany and A.A. Farag, "A System for Human Jaw Modeling Using Intra-Oral Images" in <i>Proc. IEEE Eng. Med. Biol. Soc. (EMBS) Conf.</i> , Vol. 20, Hong Kong, Oct. 1998, pp. 563-566.
Auc	S.M. Yamany, A.A. Farag, David Tasman, A.G. Farman, "A 3-D Reconstruction System for the Human Jaw Using a Sequence of Optical Images," <i>IEEE Transactions on Medical Imaging,</i> Vol. 19, No. 5, May 2000, pp. 538-547.
EXAMINER	DATE CONSIDERED 11/29/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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# INFORMATION DISCLOSURE

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STATEMENT BY APPLICANT

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Atty. Docket No.	Serial No.
01-100	09/835,007
Applicant: Rudger Rubbert, et al	
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#### **U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
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#### FOREIGN PATENT DOCUMENTS

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U.S. Department of Commerce Patent and Trademark Office

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**FOREIGN PATENT DOCUMENTS** 

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Applicant: Rudger Rubbert, et al

Filing Date: 04/13/01

Group: **△**2621

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

Aw(	Syrinx Technologies, Inc. publication, "3D Scanner", circa 1998
	Journal of Prosthetic Dentistry article, Dianne Rekow, M.S.M.E., D.D.S., "Computer-aided Design and Manufacturing in Dentistry: A Review of the State of the Art", pp. 512 – 516, October 1987
	Optical Engineering, Vo. 33 No. 6, Yee et al., "Three-dimensional Imaging System", pp. 2070-2075, June 1994
$\bigvee$	JADA article, Vol. 118, Karl F. Leinfelder et al., "A New Method for Generating Ceramic Restorations: A CAD-CAM System", pp. 703 – 707, June 1989

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				Klaus D. Toennies et al, "Registration of 3D Objects and Surfaces", <i>IEEE Computer Graphics &amp; Applications</i> , 1990, pages 52-62.										
								ation of Multiple ( is and Machine In						
			Hui	Li et al.	, "Regis	stration	of 3-D Mu	Itimodality Brain I	mages by Curve N	Aatching"	, IEEE,	1994, pages	s 1744-174	8.
V				-Franco		gin et al	., "Nonsup	ervised 3D Registi	ration of PET and	MRI Data	Using	Chamfer Ma	atching", L	EEE, 1993,

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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**EXAMINER** 

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